

Florissant Fossil Beds National Monument, Accuracy Assessment Metadata

Identification_Information:

Citation:

Citation_Information:

Originator: U.S. Geological Survey

Originator: Department of the Interior

Publication_Date: 20021216

Title: Florissant Fossil Beds National Monument Accuracy Assessment

Geospatial_Data_Presentation_Form: spreadsheet and spatial data

Series_Information:

Series_Name: USGS-NPS Vegetation Mapping Program

Issue_Identification: Florissant Fossil Beds National Monument

Publication_Information:

Publication_Place: Denver, CO

Publisher:

USGS Biological Resources Division, Center for
Biological Informatics

Online_Linkage: http://biology.usgs.gov/npsveg/flfo/index.html#accuracy_assessment_info

Description:

Abstract:

The accuracy assessment field work was performed in July - August, 2001 to verify the accuracy of the vegetation communities spatial data developed by the USGS-NPS Vegetation Mapping Program for Florissant Fossil Bed National Monument. The data points were randomly distributed stratified according to vegetation association over the project area according to protocols developed by the Program. Points were located by GPS navigation and the community information was collected at the point, without knowledge of the attributes of the vegetation spatial data. 556 points were used in the final analysis.

Purpose:

To verify the accuracy of the mapped vegetation communities at Florissant Fossil Beds National Monument

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2002 06

Currentness_Reference: Source of data collection

Status:

Progress: Complete

Maintenance_and_Update_Frequency: None planned

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -105.311935

East_Bounding_Coordinate: -105.245676

North_Bounding_Coordinate: 38.941112

South_Bounding_Coordinate: 38.884081

Description_of_Geographic_Extent: Florissant Fossil Beds National Monument, Colorado.

Keywords:

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: accuracy assessment

Theme_Keyword: accuracy

Theme_Keyword: assessment

Theme_Keyword: vegetation

Theme_Keyword: vegetation mapping

USGS-NPS Vegetation Mapping Program
Florissant Fossil Beds National Monument

Theme_Keyword: vegetation communities

Theme_Keyword: vegetation classification

Place:

Place_Keyword_Thesaurus: None

Place_Keyword: Colorado

Place_Keyword: CO

Place_Keyword: Florissant

Place_Keyword: Teller County

Place_Keyword: Florissant Fossil Beds National Monument

Taxonomy:

Keywords/Taxon:

Taxonomic_Keyword_Thesaurus: None

Taxonomic_Keywords: vegetation classification

Taxonomic_Keywords: Standardized National Vegetation Classification System

Taxonomic_Keywords: alliance

Taxonomic_Keywords: community association

Taxonomic_System:

Classification_System/Authority:

Classification_System_Citation:

Citation_Information:

Originator: U.S. Government; Federal Geographic Data Committee

Publication_Date: 19971022

Title: National Vegetation Classification Standard (NVCS)

Geospatial_Data_Presentation_Form: document

Publication_Information:

Publication_Place: Washington D.C.

Publisher: Federal Geographic Data Committee

Online_Linkage: http://www.fgdc.gov/standards/status/sub2_1.html

Taxonomic_Procedures:

Vegetation associations were identified; no specimens nor vouchers were collected as a part of this process.

Taxonomic_Completeness:

Conforms with FGDC standardized vegetation classification system.

Taxonomic_Classification:

Taxon_Rank_Name: Kingdom

Taxon_Rank_Value: Plantae

Applicable_Common_Name: plants

Access_Constraints: None

Use_Constraints:

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Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: USGS-NPS Vegetation Mapping Program Coordinator

Contact_Organization: USGS/BRD, Center for Biological Informatics

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Address: Center for Biological Informatics

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USGS-NPS Vegetation Mapping Program
Florissant Fossil Beds National Monument

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Browse_Graphic:

Browse_Graphic_File_Name: <<http://biology.usgs.gov/npsveg/flfo/images/flfoaa.jpg>>

Browse_Graphic_File_Description: Locations of accuracy assessment sites; low resolution for web browsing.

Browse_Graphic_File_Type: JPG

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

The attributes for the accuracy assessment were recorded in the field in May - June, 2002. Vegetation associations were identified based on the field key and plant identification. If additional communities were found within a 50 meter radius of the plot center, they were recorded as well. During the analysis, it was concluded that some attributes were in error and changed to match the mapped attributes. This was done by examination of the aerial photographs under stereoscopic view. The attributes were in error due to 1) spatial error in the GPS derived coordinates (4-8 meters), 2) change of vegetation community due to temporal changes, or differences between observation team identifications.

Logical_Consistency_Report:

All attributes are codes that correspond to vegetation communities and have been checked for typographical and logical errors.

Completeness_Report: All points were collected and analyzed.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

The points were located using a military-style GPS receiver (PLGR), which has a published accuracy of 4-8 meters.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report: Not applicable

Lineage:

Methodology:

Methodology_Type: Field

Methodology_Identifier:

Methodology_Keyword_Thesaurus: None

Methodology_Keyword: Accuracy Assessment

Methodology_Description:

Data points were located by use of a Garmin 3 GPS receiver. Vegetation communities were identified on the basis of a dichotomous field key and plant Species: present

Methodology:

Methodology_Type: Lab

Methodology_Identifier:

Methodology_Keyword_Thesaurus: None

Methodology_Keyword: Accuracy Assessment

Methodology_Description:

Accuracy assessment points were compiled into an ArcInfo point coverage and intersected with the vegetation community coverage. The resulting INFO file was exported into a text file, imported into a spreadsheet, and the attributes from the accuracy assessment and the spatial data were compared. If the attributes did not compare, an analysis of the mismatch was made and either the AA attribute or the map attribute was changed based on identification of the community on the aerial photo.

Source_Information:

Source_Citation:

USGS-NPS Vegetation Mapping Program
Florissant Fossil Beds National Monument

Citation_Information:

Originator: U.S. National Biological Survey

Originator: U.S. National Park Service

Originator: Department of the Interior

Publication_Date: 199411

Title: Accuracy Assessment Procedures, NBS/NPS Vegetation Mapping Program

Geospatial_Data_Presentation_Form: procedures document

Publication_Information:

Publication_Place: Denver, CO

Publisher:

USGS, Biological Resources Division, Center for Biological Informatics

Other_Citation_Details: Prepared by: Environmental Systems Research Institute; Redlands, CA and National Center for Geographic Information and Analysis, University of California, Santa Barbara, CA and The Nature Conservancy, Arlington, VA under contract from U.S. Department of the Interior National Biological Survey and National Park Service.

Type_of_Source_Media: electronic document

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 199411

Ending_Date: Present

Source_Currentness_Reference: publication date

Source_Citation_Abbreviation: Accuracy Assessment Procedures Document

Source_Contribution: This document established the procedures and protocols for the accuracy assessment at Florissant Fossil Bed National Monument.

Source_Information:

Source_Citation:

Citation_Information:

Originator: U.S. Geological Survey

Originator: Department of the Interior

Publication_Date: 200212

Title:

Florissant Fossil Bed National Monument Spatial Vegetation Data: Cover type / Association level of the National Vegetation Classification System

Geospatial_Data_Presentation_Form: report

Series_Information:

Series_Name: USGS-NPS Vegetation Mapping Program

Issue_Identification: Florissant Fossil Beds National Monument

Publication_Information:

Publication_Place: Denver, CO

Publisher:

USGS, Biological Resources Division, Center for Biological Informatics

Other_Citation_Details:

Created in large part by e2m and the USGS Rocky Mtn Mapping Center under an agreement from the NPS.

Type_of_Source_Media: Disc

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 20021216

Source_Currentness_Reference: ground condition

Source_Citation_Abbreviation: Spatial data of vegetation communities for Florissant Fossil Beds National Monument.

Source_Contribution: This document established the procedures and protocols for the accuracy assessment at Florissant Fossil Bed National Monument.

Process_Step:

Process_Description:

USGS-NPS Vegetation Mapping Program Florissant Fossil Beds National Monument

The accuracy assessment field work was performed in July - August, 2002 to verify the accuracy of the vegetation communities spatial data developed by the USGS-NPS Vegetation Mapping Program for Florissant Fossil Beds National Monument. The data points were randomly distributed stratified according to vegetation association over the project area according to protocols developed by the Program. Points were located by GPS navigation and the community information was collected at the point, without knowledge of the attributes of the vegetation spatial data.

Process_Date: 20021216

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Point

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Grid_Coordinate_System:

Grid_Coordinate_System_Name: Universal Transverse Mercator

Universal_Transverse_Mercator:

UTM_Zone_Number: 13

Transverse_Mercator:

Scale_Factor_at_Central_Meridian: 0.9996

Longitude_of_Central_Meridian: -105

Latitude_of_Projection_Origin: 0

False_Easting: 500000

False_Northing: 0

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: coordinate pair

Coordinate_Representation:

Abscissa_Resolution: 1

Ordinate_Resolution: 1

Planar_Distance_Units: meters

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983

Ellipsoid_Name: Geodetic Reference System 80

Semi-major_Axis: 6378137

Denominator_of_Flattening_Ratio: 297.257

Entity_and_Attribute_Information:

Overview_Description:

Entity_and_Attribute_Overview:

The National Vegetation Classification Standard is organized hierarchically to support conservation and resource stewardship applications across multiple scales. The upper levels of the hierarchy are based on the physical form or structure of the vegetation (physiognomy) and have been refined from the international standards developed by the United Nations Educational, Scientific, and Cultural Organization (UNESCO). The two most detailed levels of the hierarchy are based on the species composition of existing vegetation (floristics) and reflect the phyto-sociological standards that were originally developed by European ecologists. The vegetation classification is continually advanced through the collection and analysis of new field data and will be greatly strengthened during the course of the USGS-NPS mapping efforts. Data file attributes include species, alliance, community element, and land cover.

3 = SDF = Colorado Blue Spruce - Douglas-fir Forest

4 = SDAF = Colorado Blue Spruce - Douglas-fir - Quaking Aspen Forest

5 = BPW = Bristlecone Pine / Arizona Fescue Woodland

7 = PPW = Ponderosa Pine Woodland

9 = PPSBW = Ponderosa Pine / Smooth Brome Semi-natural Woodland

10 = BAPW = Balsam Poplar Woodland

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Florissant Fossil Beds National Monument

- 11 = AF = Quaking Aspen Forest
- 14 = TAS = Thinleaf Alder Shrubland
- 15 = SSS = Silver Sagewort Dwarf-shrubland
- 16 = MMS = Mountain Mahogany / Mountain Muhly Shrubland
- 17 = SCS = Shrubby Cinquefoil Shrubland
- 18 = WROS = Waxflower Rock Outcrop Shrubland
- 19 = SHWS = Shortfruit Willow Shrubland
- 20 = SBWS = Sandbar Willow Temporarily Flooded Shrubland
- 21 = MWS = Mountain Willow Shrubland
- 22 = CTHV = Canada Thistle Herbaceous Vegetation
- 23 = DHV = Duckweed Permanently Flooded Herbaceous Vegetation
- 24 = THV = Toadflax Herbaceous Vegetation
- 25 = SBHV = Smooth Brome Semi-natural Herbaceous Vegetation
- 26 = SRHV = Aquatic Sedge - Beaked Sedge - Baltic Rush Herbaceous Vegetation
- 27 = POHV = Parry Oatgrass Herbaceous Vegetation
- 28 = AFMMHV = Arizona Fescue - Mountain Muhly Herbaceous Vegetation
- 29 = FBHV = Foxtail Barley Herbaceous Vegetation
- 30 = AFSMHV = Arizona Fescue - Slimstem Muhly Herbaceous Vegetation
- 31 = LBY = Little Bluestem Herbaceous Vegetation / Yucca Dwarf-shrubland

Entity_and_Attribute_Detail_Citation:

Grossman, D. Et al. 1994. National Park Service/ National Biological Service Vegetation Mapping Project, Standardized National Vegetation Classification System 209 pp.

Distribution_Information:

Distributor:

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Distribution_Liability:

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Standard_Order_Process:

Digital_Form:

USGS-NPS Vegetation Mapping Program
Florissant Fossil Beds National Monument

Digital_Transfer_Information:

Format_Name: HTML

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name: http://biology.usgs.gov/npsveg/flfo/index.html#accuracy_assessment_info

Fees: None

Metadata_Reference_Information:

Metadata_Date: 20021216

Metadata_Review_Date: 20060831

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: USGS-NPS Vegetation Mapping Program Coordinator

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Metadata_Standard_Name: FGDC-STD-001.1-1999 Content Standard for Digital Geospatial Metadata, 1998 Part 1: Biological Data Profile, 1999

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Extensions:

Online_Linkage: <http://biology.usgs.gov/fgdc.bio/bionwext.txt>

Profile_Name: Biological Data Profile FGDC-STD-001.1-1999